

**In Field Instrument Review**  
**Date Range: 2025.01.04 – 2025.02.21**  
**Review Completed on 2025.03.18 by Carlie Glaister**

**Status Messages and Action Taken**

**100342 (Unalaska PD):** 2/12 RFI on Subject Tests, 1/12 Pump Error on Subject Tests – No action taken.

**100351 (AST/Soldotna):** 4/11 RFI on Subject Tests, 1/1 Diagnostic Failed due to pump on VOC Test followed by a passing VOC test on 02/22/2025 – No action taken.

**100354 (Anchorage PD):** 1/135 RFI on Subject Tests, 1/135 Pump Error on Subject Tests followed by a completed test, 2/135 Subject Interference on Subject Tests, 3/135 Blank Error on Subject Tests followed by completed tests, 1/135 Internal Standard Error on Subject Tests followed by a completed test. Numerous tests occurred after the Internal Standard Error and this status message has not recurred at this time – No action taken.

**100358 (AST/Mat-Su West):** 2/9 RFI on Subject Tests, 1/9 Blank Error on Subject Tests followed by a completed test – No action taken.

**100366 (Kodiak PD):** 1/15 Pump Error on Subject Tests, 2/15 Standard Out of Range on Subject Tests, 1/15 Filter Wheel Error on Subject Tests. The Standard Out of Range and Filter Wheel Error all occurred on the same subject – Recommend monitoring for Standard Out of Range and Filter Wheel Errors.

**100369 (AST/Fairbanks):** 1/3 Diagnostic Failed due to RFI on VOC Tests on 2/14/2024. Followed by a completed VOC on 2/14/2025 and 2/21/2025 – No action taken.

**100379 (AST/Anchor Point):** 2/3 Standard Out of Range on Subject Tests, 1/4 Standard Out of Range on VOC Tests. A tank change was performed on 1/19/2025 – Recommend monitoring for Standard Out of Range.

**100380 (Ketchikan PD):** 3/16 Tank Interference on Subject Tests, 2/16 Blank Error on Subject Tests, 3/16 Gas Flow Error on Subject Tests, 1/3 Blank Error on VOC Tests. Instrument was removed from service – 100380 2025.02.25 Change In Status.

**100382 (Petersburg PD):** 1/3 Tank Interference on VOC Tests, 1/3 Diagnostic Failed due to pump on VOC Tests. Instrument was removed from service – 100382 2025.01.10 Change In Status.

**100389 (AST/Fairbanks):** 4/29 Filter Wheel Errors on Subject Tests. A replacement instrument was sent on 2/13/2025 and placed in service on 2/14/2025. Instrument removed from service ~ 2/14/2025. A Change In Instrument Status Form has not been received by the crime lab at this time, these are often accompanied by the instrument when it returns to the crime lab – Instrument removed from service.

**100403 (Wasilla PD):** 1/14 Detector Overflow on Subject Tests (this occurred on Test/Test) – No action taken.

**100405 (Craig PD):** 1/5 Pump Error on Subject Tests – No action taken.

**100413 (Fairbanks PD):** 1/17 RFI on Subject Tests - No action taken.

**100421 (JBER):** 2/10 Blank Error on Subject Tests followed by completed tests – No action taken.

**100424 (Eielson AFB):** 1/4 Pump Error on Subject Tests – No action taken.

**100668 (North Pole PD):** 2/13 RFI on Subject Tests - No action taken.

**100669 (Palmer PD):** 3/38 RFI on Subject Tests, 1/38 Pump Error on Subject Tests, 1/38 Tank Interference on Subject Tests followed by a completed test – No action taken.

**100673 (Seward PD):** 2/9 RFI on Subject Tests, 2/9 Blank Error on Subject Tests. Both Blank Errors occurred on the same subject – No action taken.

**100675 (AST/Angoon):** 3/3 Diagnostic Failed due to pump on VOC Tests – Instrument is out of service as of 12/12/2024 (100675 2024.12.12 Change In Status). This instrument is being replaced (100675 2025.03.06 Change In Status).

**100683 (AST/Ketchikan):** 1/1 Internal Standard Error on VOC Test followed by a completed VOC on 2/24/2025. Internal standard may be trending above 3% - Recommend monitoring for Internal Standard Errors.

**100687 (King Cove PD):** 1/3 Tank Interference on VOC Tests, 1/3 Blank Error on VOC Tests. Both status messages occurred on 2/21/2025 and were followed by a completed VOC on 2/21/2025 – Recommend monitoring for Tank Interference and Blank Errors.

**100691 (Cordova PD):** 1/12 Gas Flow Error on Subject Tests followed by a completed test – No action taken.

**100697 (Anchorage PD):** 21/113 RFI on Subject Tests, 2/113 Subject Interference on Subject Tests, 1/113 Tank Interference on Subject Tests (this occurred on Test/Test), 1/113 Internal Standard Error on Subject Tests followed by a completed test. 16 RFI status messages occurred in a row between 1/29/2025 – 1/31/2025. Some troubleshooting occurred which appears to have resolved the RFI issue (100697 2025.01.31 Change In Status). Numerous tests occurred after the Internal Standard Error and this status message has not recurred at this time – No action taken.

**100698 (AST/Glennallen):** 1/6 RFI on Subject Tests, 1/6 Ambient Fail on Subject Tests (both status messages occurred on Test/Test) – No action taken.

#### **Follow Up from Previous In Field Instrument Review**

**100696 (Bethel PD):** Instrument was being monitored for gas flow errors. Gas flow errors occurred between 12/14/2024-12/29/2024. There was a tank change on 12/31/2024. This status message has not recurred and there have been numerous tests. Tank changes appear to have resolved this – Discontinue monitoring.

#### **Agencies not included in this summary:**

**100695 (Sand Point PD):** Instrument is unable to upload. No VOCs have been received for this instrument since it went in service on 11/26/2024. Agency is unresponsive.

**100356 (Petersburg PD):** Crime lab has been unable to receive datafiles from instrument. VOC from 1/10/2025 (in service date) and 2/21/2025 are needed. Agency is unresponsive this cycle.

**100345 (AST/Galena):** Instrument has been unable to upload. No current point of contact at agency to request datafiles from. VOC from 2/21/2025 is needed.

Subject Test Data							Date Range		Total Tests				597			
							1/4/2025	2/21/2025	Total Messages		75	12.6%				
Serial Number	Total Subject Tests	RFI	Pump Error	Interference	Tank Interference	Blank Error		Standard Out of Range	Gas Flow Error	Ambient Fail	Internal Standard Error	Diagnostic Failed	Total Codes			
100342	12	2 17%	1 8%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	3			
100351	11	4 36%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	4			
100354	135	1 1%	1 1%	2 1%	0 0%	3 2%	0 0%	0 0%	0 0%	0 0%	1 1%	0 0%	8			
100358	9	2 22%	0 0%	0 0%	0 0%	1 11%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	3			
100366	15	0 0%	1 7%	0 0%	0 0%	0 0%	2 13%	0 0%	0 0%	0 0%	0 0%	0 0%	3			
100379	3	0 0%	0 0%	0 0%	0 0%	0 0%	2 67%	0 0%	0 0%	0 0%	0 0%	0 0%	2			
100380	16	0 0%	0 0%	0 0%	0 0%	3 19%	2 13%	0 0%	3 19%	0 0%	0 0%	0 0%	8			
100405	5	0 0%	1 20%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1			
100413	17	1 6%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1			
100421	10	0 0%	0 0%	0 0%	0 0%	2 20%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	2			
100424	4	0 0%	1 25%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1			
100658	13	2 15%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	2			
100659	38	3 8%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	4			
100673	9	2 22%	0 0%	0 0%	0 0%	0 0%	1 22%	0 0%	0 0%	0 0%	0 0%	0 0%	4			
100691	2	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 8%	0 0%	0 0%	0 0%	1			
100697	113	21 19%	0 0%	2 2%	1 1%	0 0%	0 0%	0 0%	0 0%	1 1%	1 1%	0 0%	25			
100698	6	1 17%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 17%	0 0%	0 0%	2			
Total	597	39 7%	6 1%	4 1%	5 1%	10 2%	4 1%	4 1%	4 1%	1 0%	2 0%	0 0%	75			

**\*\*The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.\*\***

## Subject Test Data

Subject Test Data												Date Range		Total Tests		597											
												1/4/2025		2/21/2025		Total Messages								6		1.0%	
												Suck Back Error		Undefined Error		Filter 1 Won't Zero								Samp Chamb Low		Breath Tube High	
Serial Number	Total Subject Tests	User Abort	Detector Overflow	Barometer Error	Filter Wheel Error	Suck Back Error	Undefined Error	Filter 1 Won't Zero	Samp Chamb Low	Breath Tube High	Static Analysis Error	Total Codes															
100366	15	0	0%	0	0%	0	0%	0	0%	0	0%	1															
100389	29	0	0%	0	0%	0	0%	0	0%	0	0%	4															
100403	14	0	0%	1	7%	0	0%	0	0%	0	0%	1															
Total	597	0	0%	1	0%	0	0%	0	0%	0	0%	6															

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## VOC Data

VOC Data													Date Range		Total Tests		98			
													1/7/2025   2/21/2025		Total Messages		12		12.2%	
Serial Number	Total VOC Tests	RFI	Pump Error	Interference	Tank Interference	Blank Error		Standard Out of Range		Gas Flow Error	Ambient Fail	Internal Standard Error	Diagnostic Failed	Total Codes						
100351	1	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 100%	1						
100369	3	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 33%	1						
100379	4	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 25%	0 0%	0 0%	0 0%	0 0%	0 0%	1						
100380	3	0 0%	0 0%	0 0%	0 0%	0 0%	1 33%	1 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1						
100382	3	0 0%	0 0%	0 0%	0 0%	1 33%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 33%	2						
100675	3	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	3 100%	3						
100683	1	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	1 100%	0 0%	1						
100687	3	0 0%	0 0%	0 0%	0 0%	1 33%	1 33%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	2						
Total	98	0 0%	0 0%	0 0%	0 0%	2 2%	2 2%	1 1%	0 0%	0 0%	0 0%	1 1%	6 6%	12						

\*\*The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.\*\*

Date Range		Total Tests	98	
1/7/2025	2/21/2025	Total Messages	0	0.0%

**\*\*The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.\*\***